

WRIST PIN

ABSTRACT

A wrist pin for a heavy-duty piston assembly has a body with an axis of rotation and a generally cylindrical outer surface. The outer surface is adapted for pivotal connection to both a pair of laterally spaced pin bores and a small end of a connecting rod generally between the pin bores. The outer surface has a surface roughness equal to or less than $0.10\mu\text{m}$. The outer surface has a Kurtosis value that is inversely proportional with the surface roughness such that a product of the Kurtosis value and the surface roughness is between about $0.30\mu\text{m}$ to $0.60\mu\text{m}$. The outer surface has a skewness of about -1.0 to 0.0 and a lay angle relative to the axis of about 85 to 95 degrees.